

Phoenix MSA TERM Report by CIP Program

Training & Education Resource Model

Based on 2006-2008 occupational projections, Education & Training levels 1-11 (no restrictions)

Score = average of the five percentiles, using weights 3, 3, 1, 1, 1

Rank	CIP Code	CIP Title	Percentiles						Labor Market Data					BLS Ed & Train Code
			Score	Open-ings	Wage	ONET	Growth Rate	Turn-over Ratio	Open-ings	Hourly Wage	ONET Score	Growth Rate	Turn-over Ratio	
1	52.15	Real Estate	82.0	93	89	24	87	79	1,691	37.69	558	5.9	3.3	6.8
2	14.08	Civil Engineering	80.1	70	82	95	83	85	249	35.26	709	5.6	3.9	5.0
3	11.01	Computer and Information Sciences, General	78.9	80	80	61	79	91	408	33.61	633	5.2	5.6	4.8
4	52.11	International Business	78.1	78	94	82	52	54	382	48.65	663	3.6	2.2	4.0
5	44.04	Public Administration	78.0	81	93	78	49	52	443	45.81	653	3.5	2.1	4.2
6	52.07	Entrepreneurial and Small Business Operations	78.0	79	93	80	51	54	394	48.01	662	3.6	2.1	4.0
7	52.01	Business/Commerce, General	76.1	84	90	59	46	57	625	37.76	630	3.4	2.3	4.6
8	14.09	Computer Engineering, General	76.0	66	87	58	77	91	192	36.72	627	4.9	5.8	5.0
9	11.07	Computer Science	75.8	64	86	56	83	93	187	36.48	625	5.5	6.2	4.7
10	11.10	Computer/Information Technology Administration and Management (NEW)	75.4	72	77	68	75	90	252	32.91	639	4.8	4.8	4.9
11	11.04	Information Science/Studies	75.1	59	87	79	74	88	133	36.59	656	4.7	4.7	4.5
12	52.02	Business Administration, Management and Operations	74.8	96	76	72	39	48	2,221	32.11	645	3.1	1.9	6.1
13	11.05	Computer Systems Analysis	73.4	67	73	71	80	90	219	30.96	645	5.2	5.3	4.8
14	15.10	Construction Engineering Technologies	72.4	69	80	49	79	75	248	33.86	608	5.1	3.0	5.7
15	60.02	Medical Residency Programs	72.1	55	100	91	29	63	118	82.99	689	2.8	2.4	1.0
16	52.14	Marketing	72.0	73	81	29	87	71	295	34.06	567	5.8	2.7	4.4
17	13.04	Educational Administration and Supervision	72.0	73	83	79	59	43	292	35.30	660	3.9	1.8	4.0
18	51.20	Pharmacy, Pharmaceutical Sciences, and Administration	71.3	68	92	23	74	65	223	43.86	556	4.6	2.5	1.0
19	04.04	Environmental Design	70.7	47	77	76	93	97	78	32.74	652	6.7	6.8	4.9
20	15.12	Computer Engineering Technologies/Technicians (NEW)	70.1	74	68	47	68	88	305	28.68	606	4.2	4.7	5.5

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			Score	Open-ings	Wage	ONET	Growth Rate	Turn-over Ratio	Open-ings	Hourly Wage	ONET Score	Growth Rate	Turn-over Ratio	
21	11.09	Computer Systems Networking and Telecommunications (NEW)	70.0	48	70	88	91	95	91	29.77	679	6.5	6.7	5.0
22	51.05	Advanced/Graduate Dentistry and Oral Sciences (Cert, MS, PhD)	69.9	37	97	99	60	70	48	63.84	765	3.9	2.6	1.1
23	60.01	Dental Residency Programs	69.6	35	97	100	58	70	45	65.49	772	3.9	2.7	1.0
24	26.11	Biomathematics and Bioinformatics (NEW)	69.3	54	79	47	81	94	113	33.55	603	5.5	6.6	4.9
25	51.27	Medical Illustration and Informatics	68.4	53	78	46	82	95	111	33.07	601	5.5	6.7	5.2
26	04.02	Architecture	68.2	35	82	82	89	93	44	34.33	666	6.2	6.1	4.9
27	52.99	Business, Management, Marketing, and Related Support Services, Other	67.7	92	59	39	73	47	1,180	24.97	583	4.5	1.8	9.5
28	46.03	Electrical and Power Transmission Installers	67.6	93	23	83	94	84	1,528	17.56	669	7.2	3.5	9.2
29	51.01	Chiropractic (DC)	67.3	39	92	89	61	63	55	42.46	684	4.0	2.4	1.1
29	51.04	Dentistry (DDS, DMD)	67.3	30	96	99	58	69	40	60.46	768	3.9	2.6	1.1
31	14.10	Electrical, Electronics and Communications Engineering	67.0	74	88	80	14	25	304	36.83	661	2.2	1.2	5.0
32	46.05	Plumbing and Related Water Supply Services	66.3	91	24	87	92	73	1,168	17.73	679	6.6	2.8	9.3
33	51.06	Dental Support Services and Allied Professions	66.1	82	44	41	89	86	500	20.83	594	6.2	4.3	8.8
34	15.05	Environmental Control Technologies/Technicians	65.6	76	27	93	95	92	323	18.30	704	7.7	6.1	8.8
34	51.09	Allied Health Diagnostic, Intervention, and Treatment Professions	65.6	83	51	66	61	61	618	22.65	637	4.0	2.4	6.6
34	51.16	Nursing	65.6	92	63	77	19	29	1,489	26.01	653	2.3	1.3	6.1
37	30.16	Accounting and Computer Science (NEW)	64.8	82	57	38	60	68	455	24.64	580	3.9	2.6	5.2
38	04.06	Landscape Architecture	64.6	29	78	70	94	97	39	33.45	642	6.7	6.8	4.9
39	04.99	Architecture and Related Services, Other	64.2	27	75	81	93	96	39	32.01	663	6.7	6.8	5.0
40	04.08	Architectural History and Criticism (NEW)	64.1	28	75	81	92	96	39	31.98	663	6.7	6.7	5.0
41	14.14	Environmental/Environmental Health Engineering	64.0	44	81	60	73	69	68	34.23	630	4.5	2.6	4.9
42	09.09	Public Relations, Advertising, and Applied Communication (NEW)	63.6	69	64	23	76	75	237	26.08	557	4.8	3.0	6.4
43	43.02	Fire Protection	63.6	72	53	98	67	32	264	23.26	754	4.1	1.4	8.7
44	47.02	Heating, Air Conditioning, Ventilation and Refrigeration Maintenance	63.5	70	23	96	96	98	251	17.68	721	8.3	7.2	9.0

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45	14.19	Mechanical Engineering	63.3	63	79	69	45	30	185	33.54	642	3.4	1.3	5.6
46	52.12	Management Information Systems and Services	62.9	46	85	52	46	76	76	35.70	614	3.4	3.0	4.6
47	01.01	Agricultural Business and Management	62.4	87	30	53	75	82	779	18.62	615	4.8	3.5	8.6
48	52.16	Taxation	62.2	78	60	36	55	55	389	25.40	576	3.8	2.2	5.2
49	45.06	Economics	62.1	58	65	13	97	81	132	26.98	525	8.6	3.3	5.0
49	52.06	Business/Managerial Economics	62.1	58	65	13	97	81	132	26.98	525	8.6	3.3	5.0
51	11.99	Computer and Information Sciences and Support Services, Other.	62.0	24	74	92	81	92	34	30.96	697	5.4	5.9	5.0
51	19.02	Family and Consumer Sciences/Human Sciences Business Services	62.0	79	66	35	37	49	396	27.39	574	3.1	1.9	6.0
53	14.35	Industrial Engineering (NEW)	61.7	60	76	68	47	33	142	32.53	639	3.4	1.5	5.0
54	51.23	Rehabilitation and Therapeutic Professions	61.7	63	58	66	44	83	183	24.84	637	3.3	3.5	3.3
55	44.05	Public Policy Analysis	61.3	27	99	95	35	44	39	69.19	708	3.0	1.8	4.0
55	44.99	Public Administration and Social Service Professions, Other	61.3	27	99	95	35	44	39	69.19	708	3.0	1.8	4.0
57	19.09	Apparel and Textiles	61.2	54	72	50	63	60	113	30.67	610	4.0	2.3	5.8
58	52.08	Finance and Financial Management Services	60.5	94	56	6	27	59	1,945	24.19	504	2.8	2.3	7.9
59	15.11	Engineering-Related Technologies	60.2	62	48	83	88	40	183	21.54	667	6.0	1.6	6.1
60	52.19	Specialized Sales, Merchandising, and Marketing Operations (NEW)	60.1	91	50	25	49	46	1,129	22.47	558	3.5	1.8	8.9
61	40.06	Geological and Earth Sciences/Geosciences	59.6	32	67	76	82	83	41	27.67	651	5.5	3.5	2.8
62	22.02	Legal Research and Advanced Professional Studies (Post-LL.B./J.D.) (NEW)	59.5	42	96	31	27	62	65	52.88	568	2.8	2.4	1.0
63	22.01	Law (LL.B, J.D.)	59.4	45	95	28	25	60	73	51.01	566	2.7	2.3	1.3
63	22.99	Legal Professions and Studies, Other (NEW)	59.4	45	95	28	25	60	73	51.01	566	2.7	2.3	1.3
65	47.01	Electrical/Electronics Maintenance and Repair Technology	59.2	89	34	61	53	51	830	19.17	633	3.7	2.0	8.6
66	52.10	Human Resources Management and Services	58.9	81	53	37	34	56	441	23.35	580	2.9	2.3	4.8
67	13.12	Teacher Education and Professional Development, Specific Levels and Methods	58.2	97	20	50	65	59	2,340	16.96	609	4.1	2.3	5.3

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68	13.13	Teacher Education and Professional Development, Specific Subject Areas	57.7	90	29	60	62	42	862	18.44	631	4.0	1.7	5.3
68	49.02	Ground Transportation	57.7	97	17	39	66	72	3,138	16.37	584	4.1	2.7	10.3
70	50.04	Design and Applied Arts	57.3	66	47	36	64	78	212	21.42	575	4.0	3.1	5.8
71	50.07	Fine and Studio Art	56.5	49	54	10	95	94	98	23.53	516	7.7	6.6	4.2
72	14.02	Aerospace, Aeronautical and Astronautical Engineering	56.5	47	91	90	2	1	79	39.78	686	0.6	0.3	4.9
73	03.01	Natural Resources Conservation and Research	56.4	33	58	93	70	73	41	24.67	705	4.4	2.8	3.4
74	46.04	Building/Construction Finishing, Management, and Inspection	56.0	98	15	11	77	77	3,293	15.36	518	4.9	3.1	9.9
75	15.13	Drafting/Design Engineering Technologies/Technicians (NEW)	55.6	67	48	44	72	39	221	21.49	598	4.4	1.6	7.0
76	22.03	Legal Support Services (NEW)	55.4	76	47	8	38	84	319	21.43	507	3.1	3.6	6.8
77	11.08	Computer Software and Media Applications (NEW)	55.3	56	56	30	50	80	123	24.10	568	3.5	3.3	5.0
77	46.01	Mason/Masonry	55.3	80	27	38	55	82	411	18.23	582	3.8	3.4	9.0
79	14.07	Chemical Engineering	54.6	14	85	92	66	35	20	35.98	702	4.1	1.5	4.8
80	51.12	Medicine (MD)	54.0	4	98	85	31	64	14	66.62	672	2.9	2.4	1.0
80	51.19	Osteopathic Medicine/Osteopathy (DO)	54.0	4	98	85	31	64	14	66.62	672	2.9	2.4	1.0
82	01.06	Applied Horticulture/Horticultural Business Services	53.9	98	6	9	88	74	6,167	11.86	514	6.1	2.8	10.7
83	46.99	Construction Trades, Other	53.7	95	13	4	78	78	1,946	14.49	491	5.1	3.2	9.8
83	51.22	Public Health	53.7	43	72	91	18	31	67	30.28	689	2.3	1.4	3.9
85	04.09	Architectural Technology/Technician (NEW)	53.0	51	49	41	84	51	108	21.83	594	5.6	2.1	7.0
86	14.18	Materials Engineering	52.9	37	71	52	54	45	49	29.98	614	3.7	1.8	7.1
87	14.33	Construction Engineering (NEW)	52.7	32	70	54	65	50	41	29.75	616	4.1	2.0	7.5
87	14.36	Manufacturing Engineering (NEW)	52.7	32	70	54	65	50	41	29.75	616	4.1	2.0	7.5
89	15.02	Civil Engineering Technologies/Technicians	52.6	42	46	40	90	79	63	21.26	590	6.2	3.2	6.0
90	09.07	Radio, Television, and Digital Communication	52.3	16	64	55	90	87	21	26.49	618	6.2	4.4	4.1
90	40.05	Chemistry	52.3	40	66	67	59	28	55	27.33	638	3.9	1.3	4.5
92	52.03	Accounting and Related Services	52.2	96	36	5	28	40	2,324	19.41	498	2.8	1.6	8.5
93	52.09	Hospitality Administration/Management	52.0	65	44	63	33	46	191	20.49	634	2.9	1.8	8.3

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94	13.10	Special Education and Teaching	51.6	62	32	45	78	62	173	18.81	600	5.0	2.4	5.0
95	49.01	Air Transportation	51.2	38	74	85	19	19	53	31.94	673	2.4	1.1	7.9
96	51.08	Allied Health and Medical Assisting Services	51.0	85	10	22	70	80	688	13.54	554	4.4	3.3	9.0
97	52.17	Insurance (NEW)	51.0	88	52	18	9	13	811	23.05	548	1.8	0.9	8.6
98	51.17	Optometry (OD)	50.9	16	88	96	33	17	21	37.06	715	2.9	1.1	1.0
99	13.03	Curriculum and Instruction	50.7	41	39	73	68	76	56	19.66	647	4.2	3.1	3.0
99	13.05	Educational/Instructional Media Design	50.7	41	39	73	68	76	56	19.66	647	4.2	3.1	3.0
101	43.01	Criminal Justice and Corrections	50.7	94	20	69	24	22	1,771	17.02	642	2.7	1.2	9.8
102	04.05	Interior Architecture	50.3	21	59	56	71	85	27	25.22	623	4.4	3.6	5.7
103	15.08	Mechanical Engineering Related Technologies/Technicians	50.1	77	37	90	9	10	360	19.52	686	1.8	0.8	6.9
104	04.03	City/Urban, Community and Regional Planning	50.0	36	73	57	48	20	46	30.68	626	3.5	1.1	3.1
105	51.10	Clinical/Medical Laboratory Science and Allied Professions	50.0	59	46	77	36	23	142	21.05	653	3.0	1.2	5.8
106	51.15	Mental and Social Health Services and Allied Professions	49.3	77	31	35	40	47	358	18.62	574	3.2	1.9	6.0
107	31.05	Health and Physical Education/Fitness	49.1	75	9	46	80	65	310	12.81	603	5.3	2.5	8.6
108	50.05	Drama/Theatre Arts and Stagecraft	48.7	24	50	44	86	87	34	22.49	598	5.7	4.4	4.5
109	51.24	Veterinary Medicine (DVM)	48.3	13	84	97	23	24	18	35.67	723	2.7	1.2	1.3
109	51.25	Veterinary Biomedical and Clinical Sciences (Cert, MS, PhD)	48.3	13	84	97	23	24	18	35.67	723	2.7	1.2	1.3
111	51.21	Podiatric Medicine/Podiatry (DPM)	48.2	2	94	94	31	22	13	50.28	707	2.9	1.2	1.0
112	51.02	Communication Disorders Sciences and Services	48.1	45	55	64	40	29	71	24.07	634	3.2	1.3	2.9
113	47.06	Vehicle Maintenance and Repair Technologies	48.0	89	28	55	13	11	835	18.32	619	2.1	0.8	7.7
114	14.31	Materials Science	47.9	6	89	89	38	21	15	37.08	685	3.1	1.1	4.7
115	51.07	Health and Medical Administrative Services	47.3	95	21	13	29	35	2,039	17.26	525	2.8	1.6	8.8
116	50.06	Film/Video and Photographic Arts	45.9	23	51	64	53	74	30	22.97	635	3.7	3.0	6.1
117	13.11	Student Counseling and Personnel Services	45.1	65	34	27	45	39	189	19.10	560	3.3	1.6	3.0
118	46.02	Carpenters	44.8	90	18	67	7	6	1,015	16.63	638	1.3	0.5	9.4

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119	60.03	Veterinary Residency Programs	44.6	7	83	98	17	16	16	35.50	736	2.3	1.0	1.0
120	48.05	Precision Metal Working	43.7	88	16	30	25	27	821	15.51	567	2.7	1.3	9.3
121	31.01	Parks, Recreation and Leisure Studies	42.7	52	4	62	85	67	109	10.60	633	5.6	2.5	11.0
121	31.03	Parks, Recreation and Leisure Facilities Management	42.7	52	4	62	85	67	109	10.60	633	5.6	2.5	11.0
121	31.99	Parks, Recreation, Leisure and Fitness Studies, Other	42.7	52	4	62	85	67	109	10.60	633	5.6	2.5	11.0
124	39.06	Theological and Ministerial Studies	42.5	10	26	86	98	89	16	18.14	675	9.7	4.8	3.0
124	39.99	Theology and Religious Vocations, Other	42.5	10	26	86	98	89	16	18.14	675	9.7	4.8	3.0
126	01.08	Agricultural Public Services (NEW)	42.4	55	29	40	32	58	116	18.45	586	2.9	2.3	6.4
126	11.03	Data Processing	42.4	61	35	21	16	58	151	19.35	552	2.2	2.3	7.5
126	13.15	Teaching Assistants/Aides	42.4	86	2	5	57	56	717	9.74	495	3.9	2.2	11.0
129	47.03	Heavy/Industrial Equipment Maintenance Technologies	42.1	75	17	78	13	12	317	16.45	653	2.1	0.8	9.9
130	51.26	Health Aides/Attendants/Orderlies	42.1	84	3	16	37	66	622	10.13	542	3.0	2.5	10.2
131	14.06	Ceramic Sciences and Engineering	41.7	3	90	65	15	15	13	38.87	636	2.2	1.0	4.6
131	14.20	Metallurgical Engineering	41.7	3	90	65	15	15	13	38.87	636	2.2	1.0	4.6
133	39.07	Pastoral Counseling and Specialized Ministries	41.6	29	22	24	100	98	40	17.35	558	9.8	7.8	4.2
134	52.04	Business Operations Support and Assistant Services	41.6	99	12	4	11	25	7,847	14.01	495	2.0	1.2	10.5
135	11.02	Computer Programming	41.5	25	69	48	20	23	38	28.75	606	2.5	1.2	4.4
136	19.05	Foods, Nutrition, and Related Services	41.3	83	11	15	47	26	533	13.95	535	3.4	1.3	8.5
137	52.13	Management Sciences and Quantitative Methods	40.9	31	68	43	10	19	41	28.00	595	1.9	1.1	3.1
137	52.18	General Sales, Merchandising and Related Marketing Operations (NEW)	40.9	99	8	6	30	11	10,994	12.57	501	2.8	0.8	10.7
139	15.03	Electrical Engineering Technologies/Technicians	40.6	44	55	54	6	9	71	23.89	617	1.2	0.6	6.0
140	45.07	Geography and Cartography	40.4	36	35	49	76	26	47	19.31	608	4.8	1.2	9.4
141	51.18	Ophthalmic and Optometric Support Services and Allied Professions	40.1	56	12	20	72	66	119	14.00	551	4.5	2.5	9.8
142	23.11	Technical and Business Writing	38.9	31	49	17	51	44	40	21.98	543	3.6	1.8	4.6
143	52.05	Business/Corporate Communications	38.5	25	54	18	48	41	38	23.60	545	3.4	1.7	4.7
144	19.07	Human Development, Family Studies, and Related Services	38.4	85	0	19	36	34	714	8.05	551	3.0	1.5	10.4

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145	12.04	Cosmetology and Related Personal Grooming Services	38.1	87	7	8	22	33	739	12.02	507	2.6	1.5	7.0
145	19.06	Housing and Human Environments	38.1	34	33	9	62	72	44	19.05	514	4.0	2.8	7.4
147	50.03	Dance	37.8	22	37	58	91	15	27	19.61	628	6.4	1.0	7.7
148	14.37	Operations Research (NEW)	37.6	20	67	48	12	18	26	27.67	606	2.1	1.1	3.0
149	12.05	Culinary Arts and Related Services	37.5	100	2	3	22	8	12,698	8.98	480	2.6	0.6	10.7
150	23.05	Creative Writing	36.8	22	40	21	69	55	29	19.80	553	4.2	2.2	4.5
151	01.02	Agricultural Mechanization	36.0	60	24	51	7	12	144	17.76	613	1.3	0.8	7.6
152	42.01	Psychology, General	35.6	8	61	33	42	37	16	25.58	572	3.2	1.6	2.0
152	42.02	Clinical Psychology	35.6	8	61	33	42	37	16	25.58	572	3.2	1.6	2.0
152	42.06	Counseling Psychology	35.6	8	61	33	42	37	16	25.58	572	3.2	1.6	2.0
152	42.07	Developmental and Child Psychology	35.6	8	61	33	42	37	16	25.58	572	3.2	1.6	2.0
152	42.17	School Psychology	35.6	8	61	33	42	37	16	25.58	572	3.2	1.6	2.0
152	42.20	Clinical Child Psychology (NEW)	35.6	6	63	32	44	38	16	25.66	572	3.2	1.6	2.0
158	51.11	Health/Medical Preparatory Programs	35.5	1	52	88	39	34	11	23.11	680	3.1	1.5	2.2
159	09.99	Communication, Journalism, and Related Programs, Other	35.3	19	42	20	63	53	24	20.08	551	4.0	2.1	4.7
160	39.02	Bible/Biblical Studies	34.3	18	19	2	99	99	24	16.89	479	9.8	9.7	4.9
160	39.03	Missions/Missionary Studies and Missiology	34.3	18	19	2	99	99	24	16.89	479	9.8	9.7	4.9
160	39.04	Religious Education	34.3	18	19	2	99	99	24	16.89	479	9.8	9.7	4.9
163	25.01	Library Science/Librarianship	34.2	15	45	72	26	30	20	20.85	647	2.7	1.3	3.0
163	25.99	Library Science, Other	34.2	15	45	72	26	30	20	20.85	647	2.7	1.3	3.0
165	54.01	History	34.0	2	43	51	69	52	13	20.45	614	4.4	2.1	2.6
166	09.01	Communication and Media Studies	33.1	20	38	19	54	49	27	19.64	549	3.8	2.0	4.6
167	10.03	Graphic Communications (NEW)	32.4	71	10	7	21	21	252	13.49	505	2.6	1.1	9.9
168	43.99	Security and Protective Services, Other	32.1	68	3	11	56	7	231	10.44	521	3.8	0.5	10.8
169	44.07	Social Work	30.7	39	21	14	34	48	54	17.34	527	2.9	1.9	4.8
170	09.04	Journalism	30.1	30	31	37	21	32	40	18.71	580	2.6	1.4	5.9
171	30.19	Nutrition Sciences (NEW)	30.1	19	30	31	52	42	25	18.52	568	3.6	1.7	5.9

Rank	CIP Code	CIP Title	Percentiles						Labor Market Data					BLS Ed & Train Code
			Score	Open-ings	Wage	ONET	Growth Rate	Turn-over Ratio	Open-ings	Hourly Wage	ONET Score	Growth Rate	Turn-over Ratio	
172	23.04	English Composition	29.8	13	32	22	56	53	20	18.98	554	3.8	2.1	4.3
173	15.99	Engineering Technologies/Technicians, Other	29.6	10	38	75	20	27	16	19.63	651	2.5	1.3	6.0
174	15.07	Quality Control and Safety Technologies/Technicians	28.7	61	16	17	4	6	160	15.56	544	1.0	0.5	9.3
175	44.02	Community Organization and Advocacy	28.6	38	41	12	4	4	53	19.81	522	0.9	0.5	8.7
176	51.35	Somatic Bodywork and Related Therapeutic Services (NEW)	28.3	50	25	3	12	14	105	18.03	486	2.1	1.0	6.9
177	12.03	Funeral Service and Mortuary Science	27.2	23	42	42	3	2	33	20.29	594	0.8	0.3	7.9
178	51.31	Dietetics and Clinical Nutrition Services (NEW)	26.1	17	22	27	50	41	23	17.42	563	3.5	1.7	6.2
179	41.03	Physical Science Technologies/Technicians	25.4	12	33	59	17	18	17	19.07	628	2.3	1.1	6.6
180	25.03	Library Assistant	24.6	57	7	16	10	3	124	12.53	536	2.0	0.5	8.5
181	10.02	Audiovisual Communications Technologies/Technicians (NEW)	24.6	50	8	45	1	2	103	12.69	599	-0.2	0.3	9.5
182	15.06	Industrial Production Technologies/Technicians	24.6	5	41	74	5	5	15	19.80	649	1.0	0.5	6.0
182	15.15	Engineering-Related Fields (NEW)	24.6	5	41	74	5	5	15	19.80	649	1.0	0.5	6.0
184	48.07	Woodworking	22.9	51	9	26	0	0	105	12.88	560	-2.7	0.0	9.4
185	01.04	Agricultural and Food Products Processing	22.5	48	5	26	8	9	91	10.72	560	1.8	0.7	10.7
186	01.03	Agricultural Production Operations	21.7	64	1	1	1	0	187	8.82	463	-1.3	0.0	10.8
187	11.06	Data Entry/Microcomputer Applications (NEW)	21.2	49	11	7	3	3	96	13.60	507	0.7	0.4	10.0
188	50.01	Visual and Performing Arts, General	21.1	11	25	70	2	8	17	18.08	642	0.6	0.6	8.5
189	01.10	Food Science and Technology	20.7	0	36	42	18	17	11	19.44	595	2.3	1.0	6.0
190	47.04	Precision Systems Maintenance and Repair Technologies	20.1	34	13	15	15	10	42	14.68	530	2.2	0.8	9.3
191	10.01	Communications Technology/Technician	20.0	2	14	84	30	20	13	14.93	670	2.8	1.1	6.7
192	01.05	Agricultural and Domestic Animal Services	18.0	41	1	10	11	13	61	8.94	516	2.0	0.9	11.0
193	15.04	Electromechanical Instrumentation and Maintenance Technologies/Technicians	17.4	26	15	25	6	4	38	15.22	558	1.2	0.5	9.0
194	48.03	Leatherworking and Upholstery	10.5	21	6	0	8	7	27	11.67	388	1.5	0.5	9.0

Explanations for Each Column of the TERM Report		
Column		Explanation
A	Rank	This is the rank of the CIP (Classification of Instructional Program) by percentile score as shown in column D. Tie scores get tie ranks. Sometimes scores appear to be a tie, but if carried out to more decimal places, are not. Such CIPs are not assigned tie ranks.
B	CIP Code	CIP (Classification of Instructional Programs) code as assigned by the U.S. Department of Education. See Sources note below for more details.
C	CIP Title	The title of the training program, as assigned by the U.S. Department of Education Classification of Instructional Programs.
D	Score	The score is a weighted average of columns E through I. The weights used are 3, 3, 1, 1, 1, respectively. See Calculation Method note below for more details.
E-I	Percentiles	These 5 columns are the percentile scores of the data in columns J through N. Percentiles scores are used to compute different types of data in the model. For example, wages in dollars and growth in percentages. Tie scores produce tie percentiles.
J	Openings	The projected number of openings expected per year for the occupations within this CIP. If an occupation is contained in more than one CIP, its openings are distributed evenly among those CIPs. Projected openings based on 2006-2008 occupation projections.
K	Hourly Wage	The average of the wages of the occupations contained in this CIP, weighted by the number of openings in each occupation. Wages based on 2006 Occupational Employment Statistics (OES) survey.
L	O*NET Score	O*NET is an acronym for the Occupational Information Network (http://www.onetcenter.org/). This data is a measure of the skills, knowledge, and abilities required for the occupations within this CIP, weighted by the number of openings in each occupation. The numerical score for each comparative occupational descriptor in the O*NET Knowledge, Skills, and Abilities data files were summed for each occupation. See Sources note below for more information.
M	Growth Rate	The two-year projected rate of growth in employment of the occupations in this CIP, weighted by the number of openings in each occupation. This number could be negative but usually is not. Occupational growth rate is from the 2006-2008 Occupational Projections produced by the AzDES Research Administration.
N	Turnover Ratio	This is the projected number of annual openings due to growth divided by the projected number of annual openings due to replacement (like retirements, quits, promotions, etc.). Higher ratios indicate lower turnover. Based on the 2006-2008 occupational projections data.
O	BLS Education & Training Code	The job training and educational levels as assigned by the Bureau of Labor Statistics (BLS). See detailed descriptions of the BLS codes on page two of these notes. Note that higher numbers indicate lower amounts of education or training time.

Sources	
1	Openings and wage data are produced by the Arizona Department of Economic Security, Research Administration, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics. Wages are from the 2006 OES survey, and openings are from the 2006-2008 occupational employment projections.
2	For the O-Net score, the O-Net database, www.onetcenter.org/database.html , version 11.0, was used.
3	CIP / SOC crosswalk source: National Crosswalk Service Center http://www.xwalkcenter.org/xwxwalk.html#SOCCIP
4	The education levels are from the Bureau of Labor Statistics website at ftp://ftp.bls.gov/pub/special.requests/ep/optddata/
Calculation method	
1	Hourly wages were calculated by dividing annual wages by 2080.
2	All scores were first calculated by occupation using the SOC (Standard Occupational Code). The scores for each 6-digit SOC were calculated by averaging the scores for the 8-digit SOC's that comprise each 6-digit SOC.
3	In this iteration of the TERM, there were no restrictions on the BLS Training and Educational code. Note that the lower the training and educational time requirement, the higher the code numbers (see below).
4	Statistics by CIP (Classification of Instructional Programs) (except openings) were calculated by taking an openings-weighted average of the occupations in the CIP. For occupations appearing in more than one CIP, openings were evenly distributed among the CIPs. For example, if an occupation had 30 openings and was found in 3 CIPs, that occupation would be listed as having 10 openings in each of the 3 CIPs. After the openings were distributed in this manner, the number of openings in each CIP was calculated by summing the openings for each occupation within the CIP.
5	Percentiles were calculated for each statistic shown. In case of a tie, the same percentile was assigned to all CIP's involved in the tie.
6	The following formula determined the score for each CIP: $(3 \times \text{openings percentile} + 3 \times \text{wage percentile} + \text{ONET percentile} + \text{growth percentile} + \text{ratio percentile}) / 9$
BLS Education Codes	
1	First professional degree
2	Doctoral degree
3	Master's degree
4	Bachelor's or higher degree, plus work experience
5	Bachelor's degree
6	Associate degree
7	Post-secondary vocational training
8	Work experience in related occupation
9	Long-term on-the-job training
10	Moderate-term on-the-job training
11	Short-term on-the-job training
Questions and Comments	
	Direct questions or comments to Rick Van Sickle, 602-542-6481, John Graeflin, 602-542-6492, or Don Wehbey, 602-542-3686, at Research Administration, Arizona Department of Economic Security.